

Message

From: Lidgard, Michael [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CEEAAE464E754D259A772347572B7956-LIDGARD, MICHAEL]
Sent: 10/6/2016 6:26:02 PM
To: Keenan, Dru [keenan.dru@epa.gov]
CC: Poulosom, Susan [poulosom.susan@epa.gov]
Subject: RE: Generator Cross Sections

Those are nice drawings!

From: Keenan, Dru
Sent: Thursday, October 06, 2016 10:31 AM
To: Brougher, Craig <cbrougher@usbr.gov>; Lidgard, Michael <Lidgard.Michael@epa.gov>; Poulosom, Susan <Poulosom.Susan@epa.gov>; Bryan Horsburgh <bhorsburgh@usbr.gov>
Subject: RE: Generator Cross Sections

Hi Craig,

Thank you for sending the drawings of the two types of turbines; they are very helpful illustrations. I plan to use them in documents that I prepare for the permit – I hope that is okay to do. The site visit to Grand Coulee Dam was very informative and will be helpful for when we start on drafting the permit for Grand Coulee along with the other federal hydroelectric facilities in Washington.

I appreciate the time and information that all you gave us during our visit.

Best regards,

Dru

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From: Brougher, Craig [<mailto:cbrougher@usbr.gov>]
Sent: Thursday, October 06, 2016 8:59 AM
To: Lidgard, Michael <Lidgard.Michael@epa.gov>; Keenan, Dru <keenan.dru@epa.gov>; Poulosom, Susan <Poulosom.Susan@epa.gov>; Bryan Horsburgh <bhorsburgh@usbr.gov>
Subject: Generator Cross Sections

Good Morning,

Thank you for coming to Grand Coulee Dam and helping us with our NPDES application. Hopefully you have a better understanding of Grand Coulee Dam's operation, size, and commitment.

Attached are two drawings made by Westinghouse of two different types of turbines (waterwheel). Grand Coulee Dam only has the Francis style turbine. The Army Corp dams you visited have the Kaplan style.

I hope you find the drawings helpful. Please don't hesitate to ask if you need anything. Thanks again.

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Craig W. Brougher

Acting Resources Supervisor

Dam Hydro Tech

Grand Coulee Power Office

Grand Coulee, Washington